CLAIMS

What is claimed is:

1. A swage mount for a recording head suspension comprising:

a flange;

a hub made of a base metal extending from the flange, the hub having at least one surface protrusion;

at least an outer surface of the hub being plated with a first metal plating that has a thickness ranging from two fifths of the height of the protrusion to twice the height of the protrusion.

2. The swage mount of claim 1 wherein the surface roughness, Ra, of the first metal plating is at least 5% of the thickness of the first metal plating.

3. The swage mount of claim 1 wherein the first metal plating is harder than the base metal by at least 5 Vickers hardness numbers.

4. The swage mount of claim 1 comprising a second metal plating, applied over the first metal plating.

5. The swage mount of claim 1 wherein the first metal plating has a thickness in the range 0.01 to 9 microns.

6. The swage mount of claim 1 wherein the first metal plating has a thickness in the range 0.2 to 20 microns.

7. The swage mount of claim 1 wherein the first metal plating has a thickness in the range 0.01 to 4 microns.

8. The swage mount of claim 1 wherein the first metal plating has a thickness in the range 0.2 to 10 microns.

9. The swage mount of claim 3 wherein the base metal comprises stainless steel and the first metal plating comprises nickel.

10. The swage mount of claim 4 wherein the second metal plating is harder and thinner than the first metal plating.

11. The swage mount of claim 4 wherein the second metal plating comprises a material selected from the group consisting of rhodium, platinum, cadmium, chromium, tungsten, and nickel.

12. A method of providing a metal layer on the boss of a swage mount comprising:

activating the boss metal, and

subjecting the boss to a first metal plating bath,

wherein the step of subjecting is terminated after the metal layer achieves a thickness of 0.01 microns but before the metal layer achieves a thickness of 20 microns.

13. The method of claim 12 wherein the step of subjecting is terminated after the metal layer achieves a thickness of 0.01 microns but before the metal layer achieves a thickness of 9 microns.

14. The method of claim 12 wherein the step of subjecting is terminated after the metal layer achieves a thickness of 0.2 microns but before the metal layer achieves a thickness of 20 microns.

15. The method of claim 13 wherein the step of subjecting is terminated after the metal layer achieves a thickness of 0.01 microns but before the metal layer achieves a thickness of 4 microns.

16. The method of claim 14 wherein the step of subjecting is terminated after the metal layer achieves a thickness of 0.2 microns but before the metal layer achieves a thickness of 10 microns.

17. A swage mount for a recording head suspension comprising:

a flange;

a hub extending from the flange;

the hub having plating means for securing protrusions.

18. The swage mount of claim 17 wherein the plating means is a means for securing chromium carbide protrusions.

19. The swage mount of claim 17 wherein the plating means is a means for securing chromium nitride protrusions.

20. The swage mount of claim 17 wherein the plating means is a means for securing embedded media protrusions.

21. A swage mount for a recording head suspension comprising:

a flange;

a hub extending from the flange;

the hub having plating means for securing material inclusions in the base metal.

22. A swage mount for a recording head suspension comprising:

a flange;

a hub extending from the flange;

the hub having plating means for covering protrusions.

23. The swage mount of claim 22 wherein the plating means is a means for covering embedded media protrusions.

24. A swage mount for a recording head suspension comprising:

a flange;

a hub extending from the flange;

the hub having plating means for covering material inclusions in the base metal.

25. A swage mount for a recording head suspension in a disc drive comprising:

a flange;

a hub extending from the flange;

the hub including plating means for reducing particulate contamination in the disc drive.

26. A swage mount for a recording head suspension comprising:

a flange;

a hub made of a base metal extending from the flange;

the hub including plating means for reducing corrosion of the base metal.

27. A swage mount for a recording head suspension comprising:

a flange;

a hub made of a base metal extending from the flange;

the hub including plating means for increasing retention torque.